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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/852,717	05/11/2001	Byoung-Sun Na	06192.0226.AA	5193	
7590 10/03/2005 MCGUIRE WOODS LLP 1750 TYSONS BOULEVARD			EXAMINER		
			ERDEM, FAZLI		
SUITE 1800			ART UNIT	PAPER NUMBER	
MCLEAN, VA 22102			2826		

DATE MAILED: 10/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

				BX			
		Application No.	Applicant(s)	FWC			
		09/852,717	NA ET AL.				
•	Office Action Summary	Examiner	Art Unit				
		Fazli Erdem	2826				
Period fe	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	e correspondence ad	idress			
THE - External control	MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 or SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period we use to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	of(a). In no event, however, may a reply be within the statutory minimum of thirty (30) oill apply and will expire SIX (6) MONTHS frocause the application to become ABANDO	timely filed lays will be considered time om the mailing date of this c NED (35 U.S.C. § 133).				
Status							
1)🛛	Responsive to communication(s) filed on 19 Ju	<u>ly 2005</u> .					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This	action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
Disposit	ion of Claims		-				
4)🛛	Claim(s) <u>1-39</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)🛛	Claim(s) <u>11-20 and 25-39</u> is/are allowed.						
6)🖂	Claim(s) <u>1,2,6-9,21 and 22</u> is/are rejected.						
· —	Claim(s) <u>3-5,10,23 and 24</u> is/are objected to.						
8)[_]	Claim(s) are subject to restriction and/or	election requirement.					
Applicat	ion Papers						
9)	9)☐ The specification is objected to by the Examiner.						
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
÷	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
_	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Exa	aminer. Note the attached Office	ce Action or form P	ΓO-152.			
Priority (ınder 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau See the attached detailed Office action for a list of	have been received. have been received in Applicaty documents have been recei (PCT Rule 17.2(a)).	ation No ved in this National	Stage			
Attachmen	t(s)			•			
	e of References Cited (PTO-892)	4) Interview Summa	ry (PTO-413)				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail	Date	. 450)			
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal 6) Other:	ratent Application (PTC	J-10 <i>L</i>)			

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DETAILED ACTION

Allowable Subject Matter

1. Claims 11-20 and 25-39 allowed.

2. Claims 3-5, 10, 23 and 24 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 2, 6-9, 21 and 22 rejected under 35 U.S.C. 103(a) as being unpatentable over Shimizu et al. (5,085,973) in view of Nishimaya et al. (6,801,293) further in view of Itoh (5,847,793).

Regarding Claims 1,2,6-9,21 and 22 Shimizu et al. disclose a colored filter element containing layers of polymerizable composition where in Fig. 1, black matrix 2b is located on transparent electrode 2c which is located on oriented plate 3. Shimizu et al. fail to disclose protrusion on the black matrix and the black matrix on transparent electrode. However, Nishiyama et al. disclose a method for manufacturing an in-plane electric field mode liquid crystal element where in Fig. 21, black matrix 21 has protrusions near the end side and the middle. Furthermore, Itoh discloses a liquid crystal

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display apparatus and fabrication thereof where in Fig. 3 black matrix 25, transparent electrode 21 and substrate 21 are disclosed on the required manner.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required protrusions on black matrix and the the black matrix/transparent electrode relationship in Shimizu et al. as taught by Nishiyama et al. and Itoh respectively, in order to have a liquid crystal display device with higher reliability.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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FE

September 23, 2005

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SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800